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HALEMAUMAU SHOWS SIGNS OF GREAT ACTIVITY AND THE FILLING UP OF THE IMMENSE PIT PROGRESSES

Lava Outburst From the Side of the Well Falls in a Cascade to the Lake.

(Special to The Advertiser.) OLCANO HOUSE, June 13.-The volennic conditions in Hawaii have not changed radically from those existing in February last.

Whether there has been any action at the summit crater is uncertain. Manager Waldron of the Volcano House tates that he has seen neither fire number of others, including E. D. Bald- very different from anything in the us yet the evidence is insufficient to turbance at Martinique. Old residents assert it positively.

400 feet, are hotter than they were on the present eruption will continue for February 14, when I last observed some time and will grow in extent. within six inches of the surface, and Sunday night could see no lava, but a stick inserted into a crack bursts into when a mile away, as they were reflames in a few seconds. The indications are strong, judging from past experience, that a lake will form at this

The process of formation of a lava take is a simple one. The molten metal beneath gradualty melts the rock with which it comes in contact, eating its way upward and outward as the subterranean pressure pushes the lower column upward. When the lava column nears the surface, the gases escaping through the surface cracks carry with them small "spatters" of lava, which fall and congeal around the from six to thirty feet high. Eventually the eating away of the bank from beneath and the increased weight of the cone through constant accretions of spatter lava from above, overcome the resisting power of the crust over the top of the lava column, and the crust, cone and all, falls into the molten | cauldron and a lake is formed, with a process still continues, molten fava being thrown upon and, congealing. weighting down the banks which meanwhile are being melted away from beneath, causing a succession of "cave ins," which eventually widen the lake to a quarter, a half, and even a diameter of a mile.

The chief scene of present activity is in the main central pit of Halemauman, which was formed by the subsidence of a great lava lake in 1894. This is still between 800 and 1000 feet deep, and approximately a quarter of le long, but gives evidence of a great commotion within its walls since February last. The flat floor of recently formed black lava then visible at the extreme bottom has disappeared. The debris slopes from the perpendicular walls to the center of the pit have radically changed their shape, and look churned up. There are frequent slides through the smoke with a sharp metal- the fire in the lake.

from two spots about a third of the be made at the edge. So far not many fires was exceedingly bright and that believes there will be a grand eruption the bottom. This smoke col- have shown a willingness to accept there was a "swash" like water dash- in Halemaumau in a short time. could be seen as easily a hundred miles. cracks in the vicinity of the Volcano There is molten lava visible in the pit. House and many new fissures have but R is fluctuating in quantity, about opened. On the Kau side of the crater two-thirds of the way to the bottom, more steam is seen than has been visby reason of the great quantity of ible there for many years. In Puna when it first appeared it ran down to ing from the cracks and the heat in the bottom of the pit in a magnificent that district is intense. Changes in the caseade some 200 feet high, forming a conditions at the volcano are taking lake. This has entirely disappeared place every day; where heat is greatweder the falling walls and debris est one day the earth becomes cool the slopes, and only the molten lava on next, only to be warm again within the

be side of the pit was visible.

has seen the stupendous lava foun- Herald reporter expresses the opinion tains of Mauna Loa, or the greater that the trip is worth taking, for T setivity of Kilauea in former days, is though the take may not be what it to one of intense interest to any one who has been in years gone by it is a won-

volcanoes work, as well as to the tourist seeking merely the wonderful and

ERUPTION LONG AND EXTENSIVE

The Hilo Herald says: Conditions at nor smoke from that quarter; but a present existing at the crater are so wis, the civil engineer, state that they history of that wonder that scientific saw smoke issuing from the top of men are at a loss to explain them, Mauraa Loz as late as yesterday. There though they admit that Hawaii's volmay be some slight activity there, but cano may be affected by the recent disare free in saying that the present heated term indicates the near ap-At Kilauea the outer crater is un- proach of a lava flow from some one changed, except that the hot cracks of the weak spots in Mauna Loa, and on the side toward the Volcano House that Kilauen may be active for a few

Manager Waldron is satisfied that The rocks are a rosy red to Parties who were down to the crater



LOOKING INTO THE CRATER.



-Photos by Davey.

VIEW FROM VOLCANO HOUSE.

sound which makes one unconsciously at the crater, has made a trail to a be molten lava. urns was plainly visible from off the Alec's invitation. There is still a large Hamakua coast, 70 miles away, and quantity of steam escaping through the next twenty-four hours. This peculiar- 1 The normal condition of Halemau- ity is said to have extended to the was is the filling of a pit, the building beach at Reed's bay. A gentleman of a cone over it, the formation of one who has a house there makes the stateor more lakes about the base of the ment that on going to his bathing pool or over the space previously oc- one day he found the sand uncomfortcupied by the pit, followed inevitably ably warm, but the following day it by a collapse of the whole structure, was again cool. On the third day he rming a new pit. Since 1868 this has visited the place in company with a happened four times. The last col- friend and found the sand very warm. is per occurred in 1894. The filling up In support of his opinions that the process, delayed longer than usual, has change was caused by the changes at new begun, and the normal produc- the crater he says that particular part ties of lakes, blowholes, flows and of the beach is always in the shade. falls from the pit walls may be ex- Crowds continue to visit Kilanea; on pected until the pit is once more full Sunday there were more guests in the Meanwhile the sight, while not a pararly exciting one to a person who ago. Everyone as far as seen by the

as though they had been violently turning to the Volcano House, they no- three visits to the crater in as many ing along the beach. The sound of fallticed a distinct glow in the smoke, days says the lake appears to him to ing stones and rock could be frequently siopes of the pit, which echo up In the day time it is impossible to see be slowly filling up, and if it were not heard and he believes it to be the sides gas pressure or a mechanical pressure?

through the smoke with a snarp metal- the fire in the lake. It so, in either query, what determines it is so, in either query, what determines it so that the property is so, in either query, what determines it is so, in either query, which is so, in either query and the property and the property and the property and the property and th move back from the edge of the pit. ledge of pahoehoe, a distance of 200 G. R. Gray of Honolulu made the there is sign of fire; the cracks glow molten matter rises up in ducts or move back from the edge of the pit. There is an immense volume of feet from the brink, and takes down to trip last Saturday and went down into brightly at night and the work of tubes connecting the volcano with the where is an immense volume of feet from the bring, and taxes down to interior of the earth, and taxes down to interior of the earth. It has been gensmoke and sulphur vapor pouring out that point those visitors who desire, on Saturday night the glare from the sume more than thirty seconds. He erally regarded as a fact that when of the extreme bottom of the pit and to make a closer inspection than can for make a closer inspection than can form the sume more than thirty seconds.

VOLCANOES ARE

NOT EXPLOSIVE

Volcanie activity in the eraters of Kilauea and Mauna Loa may be expected on or about July 4th and 5th, according to Professor Lyons, the Govern- Kellogg and others of the party-were ment meteorologist. The influences enabled to get a good view into the which he believes acted upon the craters of the West Indies are likely to manifest themselves on the Island of clearly visible. Professor Kellogg states Hawali, but as neither of the volcanoes there are explosive, as are those of the that fire was visible. The burning flow West Indies, the most that can be ex- of lava in sight was accompanied by pected from them is a flow of lava a sound of sizzling or like a sound of as in former times. The influences he the waves of the sea dashing against refers to are those caused by the sun rocks. There seems to be little doubt

Professor Lyons outlined to an Ad-

vertiser reporter yesterday his theories various parts of the globe. He does a cast sea of fire not believe that it is settled yet as to whether the interior of the earth is into consideration, the consensus of our theories advanced by him respect- offer no definite prediction, he said he up to the cause for volcanic disturbances. One is that this is a molten ports brought by the various ships' oflobe with a crust; another that the ficers he can willingly affirm. interior is solid and that the pressure in the region of a volcano.

about now," said Professor Lyons, "is occurrences and he stated that it seemwhat starts a volcano to action? The question comes up, Does this molten tion would certainly occur within a few matter arise simply because of its accumulation, do gases force it up, or is some other pressure exerted? Is it a of the past. behind it. All around Halemaumau might say that it is reasoned that the clearly that not far below the surface

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KILAUEA BEFORE THE OUTBREAK.

Prof. Kellogg Sees New Fires in Crater.

Professor V. L. Kellogg and Professor R. E. Allardice of Stanford University returned last Saturday evening on the Kinau from a visit to the volcano. Professor Kellogg secured several excellent views, one of which takes in the lava lake bed of the old flow, in the foreground, shows the volcanic cliffs of 600 feet in height, and in the background exhibits the active crater from which a heavy, thick cloud is seen escaping. This cloud overhangs the whole scene and ascends into the air or hundreds of feet. Professor Kellegg has taken a full series of pictures, beginning with the one above mentioned. focussed from a distance of three and one-half miles, and by gradual stages has reached the active crater itself. The pictures show the cracks and fissures in the old lake and bring out very clearly the conformation of the

In an interview Professor Kellogg stated that the lava bed, which must be traversed before arriving at the smoking crater, is very hot and at no greater depth below the surface than three feet, fire is present. From the outer edge of the old lava lake to the oot of the crater (about three and onehalf miles) there is a gradual rise amounting to about 300 feet, and this area is crossed and intersected by crevices formed by the irregular cooling of the lava.

Arriving at the very edge of the burning mountain's mouth, Professor volcano, for as favorable winds blew away the strong, sulphurous steam issuing forth, the internal action was with the assurance of an eye witness that Kilauea is on the eve of a violent outburst, and Professor Kellogg further believes that the whole lava is to the present volcanic activity in surface of the old lake holds beneath it

The past eruptions of Kilauca taken molten or solid. Some people accept opinion seems to be that the expected as a fact that it is solid but he can- outbreak will be the greatest on recot yet regard it as such. There were ord. While Professor Kellogg would ng this phase of the question leading would like to be here for the next two or three weeks. He says that the re-

Mr. Frank Davey, the well-known s so great that the heat is greater still; photographer, was also one of the pasanother theory is that there is between sengers returning from a visit to Kithe crust and solid part a layer of lauea per S. S. Kinau, who went for molien matter; still another is that the purpose of securing photographs of there is a reservoir of molten matter the volcano in action. This is Mr. Davey's third trip and each time he "What we seem to be concerned has carefully observed the attendant ed to him that the anticipated erupweeks and that it would probably, in his estimation, exceed in violence those

He says that by thrusting a stick into the outer crater's bed the part interred is consumed by fire, showing an intense heat is present. It is extremely probable that the whole under surface of this lake is like one immense flery furnace. Fire was seen from the edge of the crater and though no flowing lava was viewed, from the rushing, swashing sound heard it would tend to indicate that mighty floods of molten matter are internally flowing.

McKenzie's Ambitions.

The rumor that Geo. S. McKenzie has gone to Honolulu to procure the appointment as sheriff of Hawaii to succeed L. A. Andrews is not given much importance by persons well asquainted with McKenzie. He has frequentely stated that he was tired of politics and came to Hawaii to get away from the annoyances incidental to a political career. In view of the fact that the citizens of Hawali are not urging him for the place, and as Sheriff Andrews has not been asked to resign by any one in authority, and as he has no intention of resigning of his own volition just now, it is not likely that McKenzie will be sheriff within the next few days .- Hilo Herald.

Big Crop at Kealia.

KEALIA, Kausi, June 13.-Makee Sugar Company finished grinding the erop for the season of 1902 at 3:30 a. m. June 11. Manager George H. Fairchild announces the crop as a little over 11,-100 tons, being 1000 tons over the estimate, and the largest crop the company